

# Notice of Allowability

Application No.

10/006,308

Examiner

Longbit Chai

Applicant(s)

DOE ET AL.

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2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interview on 2/22/2007.
2. ☒ The allowed claim(s) is/are 1-7,9,10,12-21 and 23.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 2/22/2007
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

CHRISTOPHER REVA,  
PRIMARY EXAMINER



## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/15/2007 been entered.

### ***Examiner's Amendment***

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Konrad K. Chan (Reg. No. 57,857) on 2/22/2007.

This application has been amended as follows:

#### **IN THE CLAIMS**

Cancel claim 8, 11 and 22 without prejudice.

Replace claim 1, 10 and 16 as follows.

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**Claim 1:**

An apparatus to enable operation of a computer by authorized users when in a secure mode of operation, the apparatus comprising:

a hub, the hub being configured to be portable and in communication with the computer, the hub further including,

an installed system tray program configured to allow on demand customization of hub features using a graphical user interface, the customization of hub features including an ability to allow a user to select secure hub ports and an ability to permit a user to enable remote locking of the hub;

a card reader;

a hub microprocessor, and

an encryption engine configured to encrypt/decrypt data communications between the hub and a data storage device protected by the hub, the encryption engine including,

a plurality of encryption/decryption channels, and

a control logic that is configured to determine which encryption/decryption channel is available and direct encrypted data passing through the hub to available encryption/decryption channels;

a card, the card being configured for insertion into the card reader, the card including a card microprocessor; and

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a user authentication device, the user authentication device being configured to validate the user as an authorized user of the card wherein, if the user is validated as the authorized user, the card microprocessor being configured to pass a key to the hub microprocessor in response to the validation of the user as the authorized user of the card, thereby activating the encryption engine of the hub to allow encryption/decryption of data communications.

**Claim 10:**

A computer security system for a computer, comprising:

a portable encryption control device, the encryption control device being in communication with the computer, the encryption control device including,

a card reader, the card reader being in communication with an encryption control device microprocessor,

a biometric identifier, and

an encryption engine configured to encrypt/decrypt data communications between the portable encryption control device and a data storage device protected by a hub, the encryption engine including,

a plurality of encryption/decryption channels, and

a control logic that is configured to determine which encryption/decryption channel is available and direct encrypted data passing through the hub to available encryption/decryption channels;

a system tray program configured to allow on demand customization of the portable encryption control device features using a graphical user interface, the customization including an ability to allow a user to select secure hub ports and an ability to permit a user to enable remote locking of the hub; and

a card, the card being adapted to be read by the card reader to validate a user as an authorized owner of the card in conjunction with the biometric identifier, wherein upon validation of the user, the encryption engine activates to allow encryption/decryption of data communications.

**Claim 16:**

An apparatus for providing a secure operating environment for a computer, the apparatus comprising:

an encryption control device, the encryption control device (ECD) being in communication with the computer, the ECD further including,

an installed system tray program configured to allow on demand customization of the ECD features using a graphical user interface, the customization of the ECD features including an ability to allow a user to select secure ports and an ability to permit a user to enable remote locking of the ECD,

a card reader,

an ECD microprocessor,

an encryption engine configured to encrypt/decrypt data communications between the ECD and a data storage medium protected by the ECD, the encryption engine including,

a plurality of encryption/decryption channels, and

a control logic that is configured to determine which encryption/decryption channel is available and direct encrypted data passing through the ECD to available encryption/decryption channels, and

a biometric scanner;

a smart card, the smart card being configured for insertion into the card reader, the smart card including a smart card microprocessor, wherein upon the insertion of the smart card into the card reader, a secure path is established between the smart card microprocessor and the ECD microprocessor after completion of authentication of a user and completion of a challenge/response protocol, thereby unlocking the encryption engine to allow encryption/decryption of encrypted data communications.

***Allowable Subject Matter***

1. Claims 1 – 7, 9, 10, 12 – 21 and 23 are allowed.
2. The following is an examiner's statement of reasons for allowance:

The above mentioned claims are allowable over prior arts because the CPA (Cited Prior Art) of record fails to teach or render obvious the claimed

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limitations in combination with the specific added limitations, as recited in independent claims 1, 10 and 16 (& associated dependent claims).

The prior arts Tsuria, alone or in combination with Anand and Vu, fail to teach or suggest an apparatus to enable operation of a computer by authorized users when in a secure mode of operation, the apparatus comprises a hub, the hub being configured to be portable and in communication with the computer, the hub further including an installed system tray program configured to allow on demand customization of hub features using a graphical user interface, the customization of hub features including an ability to allow a user to select secure hub ports and an ability to permit a user to enable remote locking of the hub; and an encryption engine configured to encrypt/decrypt data communications between the hub and a data storage device protected by the hub, the encryption engine including a plurality of encryption/decryption channels, and a control logic that is configured to determine which encryption/decryption channel is available and direct encrypted data passing through the hub to available encryption/decryption channels.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 571-272-3788. The examiner can normally be reached on Monday-Friday 8:00am-4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



LBC

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